

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 02/07/2013

API #: 47-033-03929 F

Farm name: HWV Incorporated Operator Well No.: Ryan 2

LOCATION: Elevation: 1186' GL Quadrangle: Rosemont

District: Simpson County: Harrison
Latitude: 12,110 Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 10,920 Feet West of 80 Deg. 10 Min. 00 Sec.

Company: Petroleum Development Corporation

Address: 120 Genesis Boulevard	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	11 3/4"	22'	22'	Sanded In
Agent: Bob Williamson	8 5/8"	970'	970'	353
Inspector: Tristan Jenkins	4 1/2"	2432'	2432'	485
Date Permit Issued: 06/19/2008				
Date Well Work Commenced: 08/15/2008				
Date Well Work Completed: 08/18/2008				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 4231'				
Total Measured Depth (ft): 4231'				
Fresh Water Depth (ft.): 9', 206'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 69-73', 206-211'				
Void(s) encountered (N/Y) Depth(s) N				

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Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation 50 Foot Sand Pay zone depth (ft) 1729
Gas: Initial open flow N/T MCF/d Oil: Initial open flow Bbl/d
Final open flow 133 MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure N/T psig (surface pressure) after Hours

Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure psig (surface pressure) after Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.



Signature

02/07/2013

Date

33.03929F

Were core samples taken? Yes _____ No XX

Were cuttings caught during drilling? Yes _____ No XX

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Superior GR/CCL.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

08/15/2008: MIRU BJ Services and Superior. Set BJ Tools retrievable plug @ 1800'. Pressure tested casing to 3475 psig. Perforated the 50 FOOT formation: 16 (1729-37), 8 (1745-49). RDMO. 08/18/2008: BJ Services: MIRU. Broke the 50 FOOT formation. Formation broke at 1674#. Gel frac formation. Start 105 bbl pad, 304 bbls treating fluid, 40,000 lbs of 30/50 Sand, 27.9 bbl of flush. Stage sand at 1# ppg increments from 1# - 4# ppg. MTP - 1711 psi, ATP - 1675 psi. Shut down, ISIP - 1362 psi, 5 min SIP - 1110 psi. RDMO

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered:	Top Depth	/	Bottom Depth
Surface:			

See "Well Log" from original completion of this well (47-033-03929).

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 02/05/2013
API #: 47-033-05139

Farm name: Fahey, William F. Operator Well No.: Fahey 5

LOCATION: Elevation: 1296' GL Quadrangle: Wolf Summit 7.5

District: Tenmile County: Harrison
Latitude: 11.970 Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 11.790 Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Petroleum Development Corporation

Address: 120 Genesis Boulevard	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	13 3/8"	19'	19'	Sanded In
Agent: Bob Williamson	9 5/8"	253'	253'	162
Inspector: Tristan Jenkins	7"	1737'	1737'	354
Date Permit Issued: 08/27/2008	4 1/2"	5303'	5303'	423
Date Well Work Commenced: 10/29/2008				
Date Well Work Completed: 11/13/2008				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 5542'				
Total Measured Depth (ft): 5542'				
Fresh Water Depth (ft.): 410'				
Salt Water Depth (ft.): 1650', 1834'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 475'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Benson, 5th & 4th Sands Pay zone depth (ft) 5224,3022

Gas: Initial open flow 84 MCF/d Oil: Initial open flow Show Bbl/d

Final open flow 189 MCF/d Final open flow Show Bbl/d

Time of open flow between initial and final tests 24 Hours

Static rock Pressure 280 psig (surface pressure) after 72 Hours

Second producing formation Gordon (commingled) Pay zone depth (ft) 2805

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock Pressure psig (surface pressure) after Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

02/07/2013
Date

Were core samples taken? Yes _____ No XXWere cuttings caught during drilling? Yes _____ No XXWere Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Weatherford Photo Density/Comp Neutron/
Array Induction from 5542-1728. Superior GR/CCL/CBL /VDL from 5274 - 1600.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

11/13/2008:MIRU HES & Superior Wireline, ran GR/CCL/CBL from 5274'. Perf Benson w/12 holes from 5224'-30'. RU HES, test lines, & pump an N2 assist Delta 15# gel system. Formation broke at 3159#. Start 65 bbl pad, 331 bbls treating fluid, 29,800 lbs of 20/40 Sand, 70 bbl of flush. Stage sand at 1# ppg increments from 1# - 4# ppg. MTP - 2972 psi, ATP - 2826 psi. Shut down, ISIP - 2294 psi. 2nd stage: Perforated the 5th/4th Sand formation: 17 holes from (3022-40). Pumped an N2 assist Delta 15# gel system. Formation broke at 2870#. Start 110 bbl pad, 481 bbls treating fluid, 49,900 lbs of 20/40 Sand, 51 bbl of flush. Stage sand at 1# ppg increments from 1# - 4# ppg. MTP - 3136 psi, ATP - 2983 psi. Shut down, ISIP - 2508 psi. Perf Gordon w/12 holes from 2805'-11'. Pumped an N2 assist Delta Plug Back Details Including Plug Type and Depth(s): 15# gel system. Formation broke at 2811#. Start 76 bbl pad, 463 bbls treating fluid, 39,900 lbs of 20/40 Sand, 45 bbl of flush. Stage sand at 1# ppg increments from 1# - 4# ppg. MTP - 3902psi, ATP - 3268 psi. Shut down, ISIP - 3524 psi.

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>/</u>	<u>Bottom Depth</u>
<u>Surface:</u>			
Little Lime	2160	2186	
Big Lime	2206	2250	
Keener	2257	2293	
Big Injun	2300	2344	
Gantz	2692	2717	
Fifty Foot	2778	2814	Show Gas
Gordon Stray	2890	2917	
4th SS	2950	2993	
5th SS	3007	3047	Show Gas
Speechley	3508	3940	
Balltown	4020	4228	
Bradford	4328	4474	
Riley	4778	5130	
Benson	5224	5266	Show Gas
TD	5542		

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 02/05/2013
API #: 47-033-05140

Farm name: Fahey, William F. Operator Well No.: Fahey 6

LOCATION: Elevation: 1402' GL Quadrangle: Wolf Summit 7.5

District: Tenmile County: Harrison
Latitude: 12,010 Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 8,490 Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Petroleum Development Corporation

Address: 120 Genesis Boulevard	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	13 3/8"	19'	19'	Sanded In
Agent: Bob Williamson	9 5/8"	253'	253'	100
Inspector: Tristan Jenkins	7"	1822'	1822'	375
Date Permit Issued: 08/27/2008	4 1/2"	5354'	5354'	460
Date Well Work Commenced: 11/05/2008				
Date Well Work Completed: 11/20/2008				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 5610'				
Total Measured Depth (ft): 5610'				
Fresh Water Depth (ft.): 45', 115'				
Salt Water Depth (ft.): 1883'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 575'				
Void(s) encountered (N/Y) Depth(s) N				

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OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Benson, 5th & 4th Sands Pay zone depth (ft) 5254,3009

Gas: Initial open flow 147 MCF/d Oil: Initial open flow Show Bbl/d

Final open flow 291 MCF/d Final open flow Show Bbl/d

Time of open flow between initial and final tests 6 Hours

Static rock Pressure 560 psig (surface pressure) after 744 Hours

Second producing formation Gordon (commingled) Pay zone depth (ft) 2935

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock Pressure psig (surface pressure) after Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

02/07/2013
Date

33.05140

Were core samples taken? Yes _____ No XXWere cuttings caught during drilling? Yes _____ No XX

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Weatherford Photo Density/Comp Neutron/
Array Induction from 5610-1700. Superior GR/CCL/CBL /VDL from 5306 - 1660.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

11/20/2008:MIRU BJ Serv. & Superior Wireline, ran GR/CCL/CBL from 5306'. Perf Benson w/4 holes from 5254'-56' & 9 holes from 5259-62'. RU BJ, test lines, & pump an N2 assist Lightning gel system. Formation broke at 3086#. Start 80 bbl pad, 473 bbls treating fluid, 35,000 lbs of 30/50 Sand, 42 bbl of flush.

Stage sand at 1# ppg increments from 1# - 4# ppg. MTP - 3086 psi, ATP - 2605 psi. Shut down, ISIP - 2033 psi. 2nd stage:

Perforated the 5th/4th Sand formation: 5 holes from 3009-12, 5 holes from 3015-18, 10 holes from 3065-70. Pumped an N2 assist Lightning gel system. Formation broke at 3061#.

Start 74 bbl pad, 407 bbls treating fluid, 50,100 lbs of 30/50 Sand, 49 bbl of flush. Stage sand at 1# ppg increments from 1# - 4# ppg.

MTP - 3061 psi, ATP - 2777 psi. Shut down, ISIP - 2142 psi. Perf Gordon w/8 holes from 2935'-39'. Pumped an N2 assist Lightning

Plug Back Details Including Plug Type and Depth(s): gel system. Formation broke at 3063#. Start 55 bbl pad, 279 bbls treating fluid, 25,000 lbs of 30/50 Sand, 47 bbl of flush. Stage sand at 1# ppg increments from 1# - 4# ppg. MTP - 3287psi, ATP - 3063 psi. Shut down, ISIP - 2609 psi.

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>/</u>	<u>Bottom Depth</u>
<u>Surface:</u>			
Maxton	2162	2193	
Big Lime	2222	2264	
Keener	2268	2313	
Big Injun	2316	2360	
Gantz	2694	2739	
Fifty Foot	2810	2846	
Gordon Stray	2922	2943	
4th SS	2985	3021	Show Gas
5th SS	3036	3077	Show Gas
Speechley	3510	3940	
Balltown	4044	4248	
Bradford	4320	4478	
Riley	4779	5145	
Benson	5251	5294	Show Gas
TD	5610		

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 02/14/2013
API #: 47-041-04016 F

Farm name: White, Bruce, Et Al Operator Well No.: B. White 1

LOCATION: Elevation: 1378' GL Quadrangle: Berlin 7.5'

District: Hackers Creek County: Lewis
Latitude: 8,390 Feet South of 39 Deg. 07 Min. 30 Sec.
Longitude 4,290 Feet West of 80 Deg. 17 Min. 30 Sec.

Company: PDC Mountaineer LLC

Address: 120 Genesis Boulevard	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	11 3/4"	30'	30'	Sanded In
Agent: Bob Williamson	8 5/8"	1290'	1290'	392
Inspector: Bill Hatfield	4 1/2"	4702'	4702'	710
Date Permit Issued: 03/23/2009				
Date Well Work Commenced: 06/08/2009				
Date Well Work Completed: 06/09/2009				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 4759'				
Total Measured Depth (ft): 4759'				
Fresh Water Depth (ft.): 20', 75'				
Salt Water Depth (ft.): 2025'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 923' - 927'				
Void(s) encountered (N/Y) Depth(s) N				

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OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Bayard Pay zone depth (ft) 2572, 2606

Gas: Initial open flow _____ MCF/d Oil: Initial open flow Show Bbl/d

Final open flow 49 MCF/d Final open flow Show Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure 250 psig (surface pressure) after 12 Hours

Second producing formation 5th Sand (commingled) Pay zone depth (ft) 2512, 2530

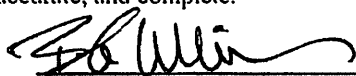
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

02/15/2013
Date

41-04016F

Were core samples taken? Yes _____ No XX

Were cuttings caught during drilling? Yes _____ No XX

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Hotwell GR/CCL cased hole log from 2800'-2350'.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

06/09/2009: MIRU Weatherford & Hotwell Wireline. Log with GR/CCL & set solid composite BP at 2650'. Perf the Bayard with 8 holes from 2604-09 & 8 holes from 2571-75. RU Weatherford & frac the Bayard Breakdown 3091psig; Fluid 30Q Foam; N2 140,500 scf Treatment: Pad 2184 gal, Sand Laden Fluid (Linear 15# Aquavis System) 12,600 gal, Sand 30,200# 20/40 White Sand, Flush 1848 gal (Includes 12 bbl Acid). Pressures: ATP 2404 psig, MTP 3091 psig Rates: AVG Rate 20.3 bbl/min, AVG N2 Rate 5418 scfm ISIP: 1952 psig. Set flow-thru composite plug at 2549' and perforate the Fifth Sand with 8 holes from 2526-33 & 8 holes from 2511-15. Frac 5th Sand: 5th Sand Breakdown 2412 psig; Fluid 30Q Foam; N2 132624 scf Treatment: Pad 2184 gal, Sand Laden Fluid (Linear 15# Aquavis System) 13986 gal, Sand 29,600# 20/40 White Sand, Flush 1512 gal. Pressures: ATP 2518 psig, MTP 3377 psig Rates: AVG Rate 16.5 bbl/min, AVG N2 Rate 5028 scfm ISIP: 1984 psig Plug Back Details Including Plug Type and Depth(s): Drilled out both plugs & cleaned out to original TD.

Formations Encountered:	Top Depth	/	Bottom Depth
Surface:			

See original submitted Well Log for this well API# 47-041-04016

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Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 02/14/2013

API #: 47-041-04127 F

Farm name: Schock, Nason A. Operator Well No.: Schock 1

LOCATION: Elevation: 1267' GL Quadrangle: Walkersville 7.5'

District: Collins Settlement County: Lewis
Latitude: 13,480 Feet South of 38 Deg. 52 Min. 30 Sec.
Longitude 3,630 Feet West of 80 Deg. 25 Min. 00 Sec.

Company: PDC Mountaineer LLC

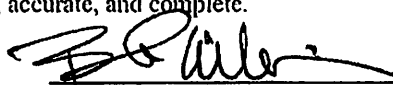
Address: 120 Gencsis Boulevard	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	11 3/4"	21'	21'	Sanded In
Agent: Bob Williamson	8 5/8"	1014'	1014'	329
Inspector: Bill Hatfield	4 1/2"	4090'	4090'	757
Date Permit Issued: 04/30/2009				
Date Well Work Commenced: 09/30/2009				
Date Well Work Completed: 09/30/2009				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 4120'				
Total Measured Depth (ft): 4120'				
Fresh Water Depth (ft.): 27'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 224'-227'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Gantz Pay zone depth (ft) 1774
Gas: Initial open flow 189 MCF/d Oil: Initial open flow ----- Bbl/d
Final open flow NT MCF/d Final open flow ----- Bbl/d
Time of open flow between initial and final tests ----- Hours
Static rock Pressure NT psig (surface pressure) after ----- Hours

Second producing formation Bayard (commingled) Pay zone depth (ft) 2284
Gas: Initial open flow ----- MCF/d Oil: Initial open flow ----- Bbl/d
Final open flow ----- MCF/d Final open flow ----- Bbl/d
Time of open flow between initial and final tests ----- Hours
Static rock Pressure ----- psig (surface pressure) after ----- Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

2-14-2013
Date

41-04127F

Were core samples taken? Yes _____ No XX

Were cuttings caught during drilling? Yes _____ No XX

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Hotwell GR/CCL from 2400' - 1430'

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

09/30/2009: MIRU BJ Services & Hotwell Wireline. Log with GR/CCL & set solid composite BP at 2310'. Perf the Bayard with 8 holes from 2284-2290. RU BJ & Stimulated well with 30 quality N2 assist. 20,090 lbs of 20/40 white sand and 58,000 scf N2 (ATP 1330 psig, MTP 1660 psig) (Avg Rates 18 bpm; 2600 scfm) Brokedown formation at 1390 psig. Pumped a pad of 68 bbl, 16,000 scf @ 18 bpm, 2600 scfm. Ramped sand concentrations from .5-4 ppa in 167 bbl, 51,000 scf @ 18 bpm, 2600 scfm. Flushed with 5 bbl spacer, 12 bbl 15% HCl, & 20 bbl of treated H2O @ 18 bpm. ISIP 1045 psig RU Hotwell & set a composite flow thru frac plug at 1820'. Perf the Ganz at 1773-1782. Stimulated the Ganz with 30 quality N2 assist, 30,087 lbs of 20/40 white sand and 145000 scf N2 (ATP 2217 psig, MTP 2309 psig) (Avg Rates 16 bpm; 5000 scfm). Brokedown formation at 2270 psig. Pumped a pad of 50 bbl, 21,000 scf @ 12 bpm, 5000 scfm. Ramped sand concentrations from .5-3 ppa in 209 bbl, 75,000 scf @ 12 bpm, 5000 scfm. Held 3# sand concentration for 21 bbl, 6000 scf @ 12 bpm, 5000 scfm. Held 4# sand concentration for 34 bbl, 16,000 scf @ 12 bpm, 5000 scfm. Flushed with 30 bbl of H2O @ 13 bpm. ISIP 1607 psig

Plug Back Details Including Plug Type and Depth(s): Drilled out both plugs & cleaned to original TD.

Formations Encountered:	Top Depth	/	Bottom Depth
Surface:			

See original submitted Well Log for this well API# 47-041-04127.

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Environmental Protection

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 02/14/2013
API #: 47-041-04153

Farm name: US Army Corps of Engineers Operator Well No.: GWS 91

LOCATION: Elevation: 1263' GL Quadrangle: Roanoke 7.5'

District: Collins Settlement County: Lewis
Latitude: 900 Feet South of 38 Deg. 57 Min. 30 Sec.
Longitude: 11,580 Feet West of 80 Deg. 25 Min. 00 Sec.

Company: PDC Mountaineer LLC

Address: 120 Genesis Boulevard	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	13 3/8"	27'	27'	Sanded In
Agent: Bob Williamson	9 5/8"	903'	903'	342
Inspector: Bill Hatfield	4 1/2"	4706'	4706'	902
Date Permit Issued: 07/24/2009				
Date Well Work Commenced: 10/05/2009				
Date Well Work Completed: 10/06/2009				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 4752'				
Total Measured Depth (ft): 4752'				
Fresh Water Depth (ft.): 347'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): None Reported				
Void(s) encountered (N/Y) Depth(s) N				

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WV Department of
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation 5th Sand Pay zone depth (ft) 2520
Gas: Initial open flow 133 MCF/d Oil: Initial open flow 2 Bbl/d
Final open flow NT MCF/d Final open flow NT Bbl/d
Time of open flow between initial and final tests ----- Hours
Static rock Pressure NT psig (surface pressure) after ----- Hours

Second producing formation ----- Pay zone depth (ft) -----
Gas: Initial open flow ----- MCF/d Oil: Initial open flow ----- Bbl/d
Final open flow ----- MCF/d Final open flow ----- Bbl/d
Time of open flow between initial and final tests ----- Hours
Static rock Pressure ----- psig (surface pressure) after ----- Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

02/15/2013
Date

41-04153

Were core samples taken? Yes _____ No XX

Were cuttings caught during drilling? Yes _____ No XX

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list JW Wireline GR/CCL log from 2650' - 2400'.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

10/05/2009: MIRU JW Wireline & log correlation strip & CCL/GR. Ran in hole with solid composite plug BP & set at 2560'. Perf 5th Sand at 2497-2501 & 2517-2521.

Stimulated well with 75 quality N2 assist, 38,584 lbs of 20/40 brown sand and 480,639 scf N2 (ATP 2415 psig, MTP 2703 psig) (Avg Rates 22.8 bpm; 14,063 scfm).

Brokedown formation at 2417 psig. Pumped a pad of 53 bbl, 148,485 scf @ 5.7 bpm, 14,821 scfm. Ramped sand concentrations from .5-3 ppa in 97 bbl,

261,607 scf @ 7.7 bpm, 15,835 scfm. Held 3# sand concentration for 10 bbl, 25,021 scf @ 9.8 bpm, 15628 scfm. Held 4# sand concentration for 24 bbl,

45,288 scf @ 10.2 bpm, 14,297 scfm. Pumped 281 bbl of slurry in ramp (231 bbl of clean). Flushed with 47 bbl of H2O @ 17 bpm. ISIP 1563 psig

Plug Back Details Including Plug Type and Depth(s): Drilled out bridge plug & cleaned to original TD.

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth
Surface: _____

See original submitted Well Log for this well API# 47-041-04153.

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WV Department of
Environmental Protection

6 May 2010

2-2-2

3185

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

API # 47-4502190-D

Farm name: Western Pocahontas Prop.

Operator Well No.: MGS/Dingess Rum 13H

LOCATION: Elevation: 977' Quadrangle: Henlawson 7.5'
District: Logan County: Logan
Latitude: 37° 53' 4.55 "
Longitude: 81° 54' 17.6 "

Company: EASTERN AMERICAN ENERGY CORPORATION
501 56th Street
Charleston, WV 25328

Casing & Tubing	Used in Well	Left in Well	Cement Fill Up Cu. Ft.
16"	60'	60'	Driven
9-5/8"	300'	300'	191
7"	2111'	2111'	466
4-1/2"	6437'	6437'	Casing Packers

Agent: Rod Winters

Inspector: Ralph Triplett

Permit Issued: 6/24/2009

Well work commenced: 7/27/2009

Well work completed: 9/4/2009

Verbal plugging

Permission granted on:

Rotary ☒ Cable ☐ Rig

Total Depth (feet): 6813' TMD, 4394' TVD

Fresh water depths (ft): 290'

Salt-water depths (ft): 751'

Is coal being mined in area? (Y/N) No

Coal Depths (ft): 44'-47', 52'-55'

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Open Flow Data

Gas:	Initial open flow	450	MCF/d	Oil:	Initial open flow	0	Bbl/d
	Final open flow	757	MCF/d		Final open flow	0	Bbl/d
	Time of open flow between initial and final tests				34	Days	
	Static rock pressure	560	psi	(surface pressure) after	30	Days	
1 st Producing Formation	Lower Huron			Pay zone depth (ft)	3972' - 4394' TVD		
2 nd Producing Formation				Pay zone depth (ft)			
3 rd Producing Formation				Pay zone depth (ft)			
4 th Producing Formation				Pay zone depth (ft)			

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Rodney A. Winters

, Agent

For: EASTERN AMERICAN ENERGY CORPORATION

By: Designated Agent
Date: 7 May 2010

STAGE ONE:	Lower Huron Sliding Sleeve N2 Frac	6756' TMD	1.5 MMcf N2
STAGE TWO:	Lower Huron Sliding Sleeve N2 Frac	6531' TMD	1.5 MMcf N2
STAGE THREE:	Lower Huron Sliding Sleeve N2 Frac	6264' TMD	1.5 MMcf N2
STAGE FOUR:	Lower Huron Sliding Sleeve N2 Frac	5997' TMD	1.5 MMcf N2
STAGE FIVE:	Lower Huron Sliding Sleeve N2 Frac	5730' TMD	1.5 MMcf N2
STAGE SIX:	Lower Huron Sliding Sleeve N2 Frac	5463' TMD	1.5 MMcf N2
STAGE SEVEN:	Lower Huron Sliding Sleeve N2 Frac	5196' TMD	1.5 MMcf N2
STAGE EIGHT:	Lower Huron Sliding Sleeve N2 Frac	4929' TMD	1.5 MMcf N2
STAGE NINE:	Lower Huron Sliding Sleeve N2 Frac	4662' TMD	1.5 MMcf N2

45-02190D
MGS/Dingess 13H WR35
Rum

FORMATION COLOR, HARD OR SOFT	TOP FEET	BOTTOM FEET
K.B. to G.L.	0	10
Fill	10	44
Coal	44	47
Sand	47	52
Coal	52	55
Sandy Shale	55	60
Sand & Shale	60	1038
Salt Sand	1038	1622
Sand & Shale	1622	1657
Upper Maxton	1657	1693
Sand & Shale	1693	1885
Middle Maxton	1885	1906
Sand & Shale	1906	2037
Lower Maxton	2037	2086
Little Lime	2086	2140
Big Lime	2140	2400
Sand & Shale	2400	2423
Big Injun	2423	2433
Sand & Shale	2433	2876
Sunbury	2876	2902
Berea	2902	2995
Sand & Shale	2995	3972
Lower Huron	3972	-
TVD	4394	

REMARKS	
Including indication of all fresh & salt water, coal, oil & gas	
<hr/>	
2" stream @ 290'	
1/4" stream @ 751	
<hr/>	
Gas Checks:	
2118	' No Show
2145	' No Show
2497	' 70/10 thru 2"
2933	' 32/10 thru 2"
3721	' 38/10 thru 2"
4749	' 46/10 thru 2"
4953	' 128/10 thru 2"
5168	' 116/10 thru 2"
5356	' 2/10 thru 7"
5542	' 2/10 thru 7"
5729	' 2/10 thru 7"
5945	' 2/10 thru 7"
6164	' 2/10 thru 7"
6348	' 2/10 thru 7"
6565	' 2/10 thru 7"
6752	' 2/10 thru 7"
6813	' 1/10 thru 7"

API # 47-4502191-D

API # 47-4502191-D

Operator Well No.: MGS/Dingess Rum 14H

Casing & Tubing	Used in Well	Left in Well	Cement Fill Up Cu. Ft.
16"	30'	30'	Driven
9-5/8"	335'	335'	225
7"	2110'	2110'	466
4-1/2"	7250'	7250'	Casing Packers

WV Department of
Environmental Protection

By: Designated Agent
Date: 7 May 2010

STAGE ONE:	Lower Huron Sliding Sleeve N2 Frac	7121' TMD	1.5 MMcf N2
STAGE TWO:	Lower Huron Sliding Sleeve N2 Frac	6857' TMD	1.5 MMcf N2
STAGE THREE:	Lower Huron Sliding Sleeve N2 Frac	6593' TMD	1.5 MMcf N2
STAGE FOUR:	Lower Huron Sliding Sleeve N2 Frac	6329' TMD	1.5 MMcf N2
STAGE FIVE:	Lower Huron Sliding Sleeve N2 Frac	6065' TMD	1.5 MMcf N2
STAGE SIX:	Lower Huron Sliding Sleeve N2 Frac	5801' TMD	1.5 MMcf N2
STAGE SEVEN:	Lower Huron Sliding Sleeve N2 Frac	5528' TMD	1.5 MMcf N2
STAGE EIGHT:	Lower Huron Sliding Sleeve N2 Frac	5211' TMD	1.5 MMcf N2
STAGE NINE:	Lower Huron Sliding Sleeve N2 Frac	4898' TMD	1.5 MMcf N2
STAGE TEN:	Lower Huron Sliding Sleeve N2 Frac	4591' TMD	1.5 MMcf N2

45-021910

MGS/Dingess

14H WR35

Rum

FORMATION COLOR, HARD OR SOFT	TOP FEET	BOTTOM FEET
K.B. to G.L.	0	10
Fill	10	89
Sand & Shale	89	1006
Salt Sand	1006	1640
Upper Maxton	1640	1686
Sand & Shale	1686	1885
Middle Maxton	1885	1908
Sand & Shale	1908	2038
Lower Maxton	2038	2085
Little Lime	2085	2140
Big Lime	2140	2402
Sand & Shale	2402	2423
Big Injun	2423	2434
Sand & Shale	2434	2875
Sunbury	2875	2912
Berea	2912	2927
Sand & Shale	2927	4016
Lower Huron	4016	-
TVD	4106	

REMARKSIncluding indication of all fresh & salt
water, coal, oil & gas

Hole Damp @ 120'

3" stream @ 197'

Hole Damp @ 1243'

Gas Checks:

3427 ' 6/10 thru 2"

3636 ' 6/10 thru 2"

3823 ' 6/10 thru 2"

4105 ' 44/10 thru 2"

4323 ' 44/10 thru 2"

4511 ' 50/10 thru 2"

4695 ' 64/10 thru 2"

4910 ' 68/10 thru 2"

5125 ' 48/10 thru 2"

5311 ' 68/10 thru 2"

5525 ' 52/10 thru 2"

5711 ' 48/10 thru 2"

5958 ' 48/10 thru 2"

6174 ' 48/10 thru 2"

6205 ' 72/10 thru 2"

6359 ' 75/10 thru 2"

6545 ' 48/10 thru 2"

6762 ' 48/10 thru 2"

6915 ' 40/10 thru 2"

7104 ' 44/10 thru 2"

7261 ' 44/10 thru 2"

7300 ' 44/10 thru 2"

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/26/2012
API #: 47-049-02157

Farm name: XTO Energy, Inc. Operator Well No.: McClelland 4H

LOCATION: Elevation: 9,711' Quadrangle: Shinnston 7.5'

District: Lincoln County: Marion
Latitude: 2,510' Feet South of 39 Deg. 27 Min. 30 Sec.
Longitude 9,290' Feet West of 80 Deg. 17 Min. 30 Sec.

Company: XTO Energy, Inc.

Address: PO Box 1008, Jane Lew, WV 26378	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
	20"	40'	40'	CTS
Agent: Gary Beall	13 3/8"	617'	617'	550 sks
Inspector: Sam Ward	9 5/8"	3,011'	3,011'	610 sks
Date Permit Issued: 4/14/2011	5 1/2"	10,151'	10,151'	1471 sks
Date Well Work Commenced: 4/30/2011				
Date Well Work Completed: 11/04/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7,158'				
Total Measured Depth (ft): 10,177'				
Fresh Water Depth (ft): 90'				
Salt Water Depth (ft): 1,025', 1,225'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 103'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7,155'

Gas: Initial open flow Show MCF/d Oil: Initial open flow Bbl/d

Final open flow Show MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock Pressure psig (surface pressure) after Hours

Second producing formation Pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock Pressure psig (surface pressure) after Hours

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WV Department of
Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

4-30-12
Date

44-02157

Were core samples taken? Yes _____ No ☒Were cuttings caught during drilling? Yes ☒ No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list _____

MWD, GR, ROP, VS, Mud Logs, & TVD

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Stg 1 Marcellus; 9,900'-10,082'; 72 shots; Slick water frac; Avg treating 7463 psi@77 bpm; 80,800#s 100 mesh; 212,700#s 30/50 mesh; 7,477 bbl water

Stg 2 Marcellus; 9,602'-9,764'; 72 shots; Slick water frac; Avg treating 7276 psi@77 bpm; 79,200#s 100 mesh; 264,800#s 30/50 mesh; 9,252 bbl water, 800 bbl treated water

Stg 3 Marcellus; 9,348'-9,532'; 72 shots; Slick water frac; Avg treating 7477 psi@73 bpm; 69,300#s 100 mesh; 241,000#s 30/50 mesh; 7,444 bbl water

Stg 4 Marcellus; 9,081'-9,263'; 72 shots; Slick water frac; Avg treating 8006 psi@64 bpm; 55,500#s 100 mesh; 133,675#s 30/50 mesh; 6,747 bbl water

Stg 5 Marcellus; 8,808'-8,990'; 72 shots; Slick water frac; Avg treating 7560 psi@71 bpm; 52,700#s 100 mesh; 156,500#s 30/50 mesh; 5,558 bbl water

Stg 6 Marcellus; 8,535'-8,717'; 72 shots; Slick water frac; Avg treating 7574 psi@76 bpm; 73,300#s 100 mesh; 254,000#s 30/50 mesh; 7,238 bbl water, 266 bbl treated water

Plug Back Details Including Plug Type and Depth(s):

See additional page

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth _____

Surface:

Fill	0 - 40	
Sand	40-100	1/2" H2O @ 90
Shale	100-103	
Coal	103-108	
Sand	108-125	
Sand/Shale	125-185	
Sand	185-230	
Red Shale	230-248	
Grey Shale	248-325	
Shale & Sand	325-435	
Sand	435-500	
Red Shale	500-525	
SD&SH	525-600	
SD	600-620	

See additional page

44-02157

Additional Stages

Stg 7 Marcellus; 8,262'-8,444'; 72 shots; Slick water frac; Avg treating 7677 psi@78 bpm; 222,000#s 100 mesh; 62,000#s 30/50 mesh; 6,830 bbl water, 536 bbl treated water

Stg 8 Marcellus; 7,989'-8,171'; 72 shots; Slick water frac; Avg treating 7470 psi@77 bpm; 78,100#s 100 mesh; 230,500#s 30/50 mesh; 7,100 bbl water, 761 bbl treated water

Stg 9 Marcellus; 7,716' - 7,898'; 72 shots; Slick water frac; Avg treating 7695 psi@77 bpm; 73,900#s 100 mesh; 234,200#s 30/50 mesh; 6,559 bbl water, 177 bbl treated water

Formation Log Continued

SS	620	750	
SS, SH	750	897	
SH	897	945	
SS	945	1050	Damp @ 1025'
SH, SS	1050	1155	
SH	1155	1285	1" Stream H2O @ 1225'
SS	1285	1320	
SH	1320	1375	
SS,SH	1375	1445	
SS	1445	1750	
SS,SH	1750	2130	
SH	2130	2200	
SS	2200	2287	
SH	2287	2560	
SS,SH	2560	3048	
SH, SLTST	3048	3310	
SH,SLTST,SS	3310	3880	
SH,SLTST	3880	4240	
SH	4240	4330	
SH,SLTST	4330	4720	
SLTST,SH	4720	5200	
SH,SLTST	5200	5550	
SH	5550	6340	
SH,SS	6340	6400	
SH	6400	6900	
SH,LS	6900	6920	
SH	6920	7000	
LS, SH	7000	7220	
SH	7220	10177	
Burkett	6916MD	6981MD	
	6879TVD	6929TVD	
Tully	6981MD	7052MD	
	6929TVD	6982TVD	
Hamilton	7052MD	7153MD	
	6982TVD	7045TVD	
Marcellus	7153MD	10177MD	
	7045TVD	7158TVD	

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 2/27/2013
API #: 47-5902215

Farm name: Quality Natural Gas Properties, LTD Operator Well No.: 2234

LOCATION: Elevation: 700.6 Quadrangle: Matewan

District: Magnolia County: Mingo
Latitude: 11.059 Feet South of 37 Deg. 37 Min. 30 Sec.
Longitude 2.247 Feet West of 82 Deg. 07 Min. 30 Sec.

Company: Kinzer Drilling Company

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>PO Box 460</u>				
<u>Allen, KY 41601</u>	<u>9 5/8"</u>	<u>53'</u>	<u>53'</u>	
Agent: <u>James Hill</u>	<u>7"</u>	<u>255'</u>	<u>255'</u>	<u>59</u>
Inspector: <u>Barry Stollings</u>				
Date Permit Issued: <u>5/17/2011</u>				
Date Well Work Commenced: <u>8/18/2011</u>				
Date Well Work Completed: <u>8/24/2011</u>				
Verbal Plugging: <u>8/24/2011</u>				
Date Permission granted on: <u>8/24/2011</u>				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>445'</u>				
Total Measured Depth (ft): <u>445'</u>				
Fresh Water Depth (ft.): <u>200', 345'</u>				
Salt Water Depth (ft.): <u>NONE</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>N/A</u>				
Void(s) encountered (N/Y) Depth(s) <u>NONE</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation N/A Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Terry Kinzer
Signature

2/26/13
Date

59-02215

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes _____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list No

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Well was not treated. It was plugged 8/24/2011

Plug Back Details Including Plug Type and Depth(s): Well plugged solid with 100 sks Class A 2% 445' to surface, 4.5" annulus 50 sks Class A 2%. Cement 53'-surface(15sks Class A) 53' 9 5/8" 36lb

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>/</u>	<u>Bottom Depth</u>
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UPPER SALT SAND	380'/445'		
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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 02/12/2013
API #: 47-091-01206

Farm name: Patriot Mining Company Operator Well No.: Coaltrain 7HM

LOCATION: Elevation: 1273' GL Quadrangle: Grafton 7.5'

District: Courthouse County: Taylor
Latitude: 13,288 Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 7,546 Feet West of 80 Deg. 05 Min. 00 Sec.

Company: PDC Mountaineer LLC

Address: 120 Genesis Boulevard	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	20"	80'	80'	Surface
Agent: Bob Williamson	13 3/8"	465'	465'	466
Inspector: Joe McCourt	9 5/8"	2782'	2782'	1140
Date Permit Issued: 12/10/2010	5 1/2"	14,015'	14,015'	3726
Date Well Work Commenced: 12/16/2011				
Date Well Work Completed: 04/11/2012	2 7/8"		8172'	
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7774'				
Total Measured Depth (ft): 14,032'				
Fresh Water Depth (ft.): Drilled from surf on air/foam				
Salt Water Depth (ft.): Drilled from surf on air/foam				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 78', 783'				
Void(s) encountered (N/Y) Depth(s) N				

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Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7767'

Gas: Initial open flow ----- MCF/d Oil: Initial open flow ----- Bbl/d

Final open flow 2,708 MCF/d Final open flow ----- Bbl/d

Time of open flow between initial and final tests 720 Hours

Static rock Pressure 1460 psig (surface pressure) after 72 Hours

Second producing formation N/A Pay zone depth (ft) -----

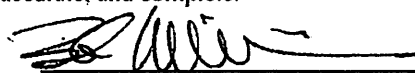
Gas: Initial open flow ----- MCF/d Oil: Initial open flow ----- Bbl/d

Final open flow ----- MCF/d Final open flow ----- Bbl/d

Time of open flow between initial and final tests ----- Hours

Static rock Pressure ----- psig (surface pressure) after ----- Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

02/15/2013
Date

91-01206

Were core samples taken? Yes _____ No XXWere cuttings caught during drilling? Yes XX No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Mud Log from 6600'- 14,032'. SLB open hole LWD
EcoScope Image /GR/Dens/Neutron & SLB Sonic Scanner from 8,442-13,553. Pathfinder Directional surveys from 6,433-14,032 (GR from 6,488 to TD).

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforated interval 10,809 ft. - 13,850 ft. (400 shots). Frac'd 10 stages using 238 bbls 15% HCL, and 103,500 bbls of Slickwater carrying 740,500 lbs of 100-mesh sand, 2,632,800 lbs of 40/70 sand, and 77,200 lbs of 30/50 sand.

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

Little Lime (est)	1522	1537
Big Lime (est)	1559	1741
Gantz (est)	2000	2018
50 Foot (est)	2057	2141
30 Foot (est)	2155	2209
Gordon(est)	2230	2266
4th Sand (est)	2477	2535
5th Sand (est)	2551	2595
Riley (est)	4155	4423
Benson (est)	4525	4575
Sycamore	6773	6881
Geneseo	7462	7478
Tully	7478	7544
Marcellus	7706	14,032' MD-TD

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WV Department of
Environmental Protection

All depths are KB (19') TVD except MD-TD. Depths below Benson from directional "GR-TVD" Log.

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 02/11/2013
API #: 47-091-01251

Farm name: Patriot Mining Company Operator Well No.: Coaltrain 8HM

LOCATION: Elevation: 1273' GL Quadrangle: Grafton 7.5'

District: Courthouse County: Taylor
Latitude: 13,262 Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 7,562 Feet West of 80 Deg. 05 Min. 00 Sec.

Company: PDC Mountaineer LLC

Address: 120 Genesis Boulevard	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	20"	80'	80'	Surface
Agent: Bob Williamson	13 3/8"	470'	470'	383
Inspector: Joe McCourt	9 5/8"	2779'	2779'	1140
Date Permit Issued: 11/30/2011	5 1/2"	13,611'	13,611'	3915
Date Well Work Commenced: 12/26/2011				
Date Well Work Completed: 05/16/2012	2 7/8"		8160'	
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7,775'				
Total Measured Depth (ft): 13,615'				
Fresh Water Depth (ft.): Drilled from surf on air/foam				
Salt Water Depth (ft.): Drilled from surf on air/foam				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 78', 783'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7767'

Gas: Initial open flow ----- MCF/d Oil: Initial open flow ----- Bbl/d

Final open flow 4,721 MCF/d Final open flow ----- Bbl/d

Time of open flow between initial and final tests 720 Hours

Static rock Pressure 1,500 psig (surface pressure) after 72 Hours

Second producing formation N/A Pay zone depth (ft) -----

Gas: Initial open flow ----- MCF/d Oil: Initial open flow ----- Bbl/d

Final open flow ----- MCF/d Final open flow ----- Bbl/d

Time of open flow between initial and final tests ----- Hours


Static rock Pressure ----- psig (surface pressure) after ----- Hours

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FEB 19 2013

WV Department of
Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.



Signature

02/15/2013

Date

91-01251

Were core samples taken? Yes _____ No XXWere cuttings caught during drilling? Yes XX No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Mud Log from 6850' - 13,615' SLB open hole LWD EcoScope
Image /GR/Dens/Neutron from 8,440'-13,587'. Pathfinder Directional surveys from 2,908'- TD (GR from 2,800' to TD). SLB 3D Bore Hole Caliper from 8,440' - 13,587'.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforated interval 8,515 ft - 13,500 ft (760 shots). Frac'd 19 stages using 452 bbls 15% HCL, and 173,500 bbls of Slickwater carrying 1,336,400 lbs of 100-mesh sand, 4,572,400lbs of 40/70 sand, and 143,200 lbs of 30/50 sand.

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth _____
Surface:

Little Lime (est)	1522	1537	
Big Lime (est)	1559	1741	
Gantz (est)	2000	2018	
50 Foot (est)	2057	2141	
30 Foot (est)	2155	2209	
Gordon(est)	2230	2266	
4th Sand (est)	2477	2535	
5th Sand (est)	2551	2595	
Riley	4155	4508	
Benson	4664	4704	
Sycamore	6772	6888	Show Gas
Geneseo	7461	7478	Show Gas
Tully	7478	7548	
Marcellus	7708	13,615' MD-TD	Show Gas

All depths are KB (19") TVD except MD-TD. Depths below 5th Sand are from directional "GR-TVD" Log.

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FEB 19 2013

WV Department of
Environmental Protection

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 02/14/2013
API #: 47-091-01252

Farm name: Patriot Mining Company Operator Well No.: Coaltrain 9HM

LOCATION: Elevation: 1273' GL Quadrangle: Grafton 7.5'

District: Courthouse County: Taylor
Latitude: 13,249 Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 7,570 Feet West of 80 Deg. 05 Min. 00 Sec.

Company: PDC Mountaineer LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
120 Genesis Boulevard Bridgeport, WV 26330	20"	80'	80'	Surface
Agent: Bob Williamson	13 3/8"	462'	462'	383
Inspector: Joe McCourt	9 5/8"	2779'	2779'	1068
Date Permit Issued: 11/30/2011	5 1/2"	14,372'	14,372'	3802
Date Well Work Commenced: 12/29/2011				
Date Well Work Completed: 05/16/2012	2 7/8"		8234'	
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7,772'				
Total Measured Depth (ft): 14,392'				
Fresh Water Depth (ft.): Drilled from surf on air/foam				
Salt Water Depth (ft.): Drilled from surf on air/foam				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 78', 783'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7767'
Gas: Initial open flow 6,250 MCF/d Oil: Initial open flow Bbl/d
Final open flow 3,888 MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests 770 Hours
Static rock Pressure 1,650 psig (surface pressure) after 72 Hours


Second producing formation N/A Pay zone depth (ft)
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure psig (surface pressure) after Hours

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FEB 19 2013

WV Department of
Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

02/15/2013
Date

91-01252

Were core samples taken? Yes _____ No XXWere cuttings caught during drilling? Yes XX No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Mud Log from 6900'- 14,392' SLB open hole LWD EcoScope
SonicVision Image /GR/Dens/Neutron from 8,422'-14,366'. Pathfinder Directional surveys from 2,808' TD (GR from 5,950' to TD). SLB 3D Bore Hole Caliper.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforated interval 10,809 ft - 13,850 ft (400 shots). Frac'd 10 stages using 238 bbls 15% HCL, and 103,500 bbls of Slickwater carrying 740,500 lbs of 100-mesh sand, 2,632,800 lbs of 40/70 sand, and 77,200 lbs of 30/50 sand.

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

Little Lime (est)	1522	1537	
Big Lime (est)	1559	1741	
Gantz (est)	2000	2018	
50 Foot (est)	2057	2141	
30 Foot (est)	2155	2209	
Gordon(est)	2230	2266	
4th Sand (est)	2477	2535	
5th Sand (est)	2551	2595	
Riley (est)	4155	4508	
Benson (est)	4664	4704	
Sycamore	6774	6878	Show Gas
Geneseo	7458	7472	Show Gas
Tully	7472	7536	
Marcellus	7701	14,392' MD-TD	Show Gas

All depths are KB (19') TVD except MD-TD. Depths below Benson are from directional "GR-TVD" Log.

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FEB 19 2013

WV Department of
Environmental Protection

DATE: 1/2/09
API: 47-097-03490State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: Chuck Marple Operator Well No. C. Marple A #3 B0803LOCATION: Elevation: 1,323 Quadrangle: Berlin
District: Warren County: Upshur
Latitude: 10,165 Feet S. of 39 Deg. 05 Min. 00 Sec.
Longitude: 8,605 Feet W. of 80 Deg. 15 Min. 00 Sec.Company: Devonian Gas Production, Inc.

Address:	Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
<u>PO Box 907</u>	<u>9 5/8</u>	<u>30</u>	<u>conductor</u>	<u>pulled</u>
<u>Jane Lew, WV 26378</u>	<u>7"</u>	<u>1096'</u>	<u>1096'</u>	<u>to surface</u>
Agent: <u>John Haskins</u>	<u>4 1/2"</u>	<u>5031'</u>	<u>5031'</u>	<u>240 sks</u>
Inspector: <u>Craig Duckworth</u>				
Date Permit Issued: <u>02/14/08</u>				
Date Well Work Commenced: <u>04/21/08</u>				
Date Well Work Completed: <u>05/07/08</u>				
Verbal Plugging:				
Date Permission Granted on:				
Rotary X Cable Rig				
Total Depth (ft): <u>5178'</u>				
Fresh Water Depth (ft): <u>300'</u>				
Salt Water Depth (ft): <u>none</u>				

Is coal being mined in the area (Y/N)? N
Coal Depths (ft): 705'

OPEN FLOW DATA

Producing formations	Injun	Pay zone depth (ft)	<u>1911'</u>
	Bradford		<u>3360'</u>
	Benson		<u>4557'</u>
	Elk		<u>4952'</u>

Gas: Initial open flow 84 Mcf/d. Oil: Initial open flow N/A Bbl/d
Final open flow 630 Mcf/d. Final open flow N/A Bbl/d
Time to open flow between initial and final tests: 5 Hours
Static rock Pressure 1650 psig (surface press.) after 48 Hours

NOTE: On back of this form put the following: 1) Details of perforated intervals, fracturing or stimulating, physical change, etc. 2) The well log which is a systematic detailed geological record of all formations, including coal encountered by the wellbore.

Signed: [Signature]

By: _____

Date: 1/2/09

97.03490

STAGE	FORMATION	PERFORATIONS	SAND
		# of shots	20/40
1st Stage	Elk	12	35,000
2nd Stage	Benson	10	25,000
3rd Stage	Bradford	10	20,000
4th Stage	Injun	12	20,000

DRILLERS LOG

[illegible]

ELECTRIC LOG

[illegible]

DATE: 3/15/11
API: 47-097-03650State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: Darrell Crites Operator Well No. Loudin #4 D0904LOCATION: Elevation: 1817.04' Quadrangle: Rock Cave
District: Meade County: Upshur
Latitude: 4410' Feet S. of 38 Deg. 52 Min. 30 Sec.
Longitude: 750' Feet W. of 80 Deg. 15 Min. 00 Sec.Company: Devonian Gas Production, Inc.

Address:	Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
<u>PO Box 907</u>	<u>9 5/8</u>	<u>30</u>	<u>30</u>	
<u>Jane Lew, WV 26378</u>	<u>7"</u>	<u>973'</u>	<u>973'</u>	<u>to surface</u>
Agent: <u>John Haskins</u>	<u>4 1/2"</u>	<u>none</u>	<u>3977'</u>	<u>180 sks</u>
Inspector: <u>Bill Hatfield</u>				
Date Permit Issued: <u>06/12/09</u>				
Date Well Work Commenced: <u>10/13/09</u>				
Date Well Work Completed: <u>11/04/09</u>				
Verbal Plugging:				
Date Permission Granted on:				
Rotary X Cable Rig				
Total Depth (ft): <u>4020'</u>				
Fresh Water Depth (ft): <u>87'</u>				

Salt Water Depth (ft): NAIs coal being mined in the area (Y/N)? NCoal Depths (ft): NA

OPEN FLOW DATA

Producing formations	<u>Riley</u>	Pay zone depth (ft)	<u>3482'</u>
	<u>Benson</u>		<u>3822'</u>

Gas: Initial open flow	<u>odor</u>	Mcf/d.	Oil: Initial open flow	<u>N/A</u>	Bbl/d
Final open flow	<u>200</u>	Mcf/d.	Final open flow	<u>N/A</u>	Bbl/d
Time to open flow between initial and final tests:	<u>5</u>	Hours			
Static rock Pressure	<u>750</u>	psig (surface press.) after	<u>48</u>	Hours	

NOTE: On back of this form put the following: 1) Details of perforated intervals, fracturing or stimulating, physical change, etc. 2) The well log which is a systematic detailed geological record of all formations, including coal encountered by the wellbore.

Signed: [Signature]
By: [Signature]
Date: 3/15/11

97-03650

STAGE PERFORATION FACTORING DETAILS			
STAGE	FORMATION	PERFORATIONS	SAND
		# of shots	20/40
1st Stage	Benson	14	40,000
2nd Stage	Riley	10	25,000

DRILLERS LOG

[illegible]

ELECTRIC LOG

[illegible]

DATE: 3/15/11
API: 47-097-03678State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: Hartzel Marple Operator Well No. Jones #7 D0909LOCATION: Elevation: 1490.67' Quadrangle: Berlin
District: Warren County: Upshur
Latitude: 3590' Feet S. of 39 Deg. 05 Min. 00 Sec.
Longitude: 7920' Feet W. of 80 Deg. 15 Min. 00 Sec.Company: Devonian Gas Production, Inc.

Address:	Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
<u>PO Box 907</u>	<u>9 5/8</u>	<u>30</u>	<u>conductor</u>	
<u>Jane Lew, WV 26378</u>	<u>7"</u>	<u>1263'</u>	<u>1263'</u>	<u>to surface</u>
Agent: <u>John Haskins</u>	<u>4 1/2"</u>		<u>5256'</u>	<u>230 sks</u>
Inspector: <u>Bill Hatfield</u>				
Date Permit Issued: <u>09/04/09</u>				
Date Well Work Commenced: <u>10/29/09</u>				
Date Well Work Completed: <u>11/17/09</u>				
Verbal Plugging:				
Date Permission Granted on:				
Rotary X Cable Rigg				
Total Depth (ft): <u>5325'</u>				
Fresh Water Depth (ft): <u>n/a</u>				
Salt Water Depth (ft): <u>NA</u>				

Is coal being mined in the area (Y/N)? N
Coal Depths (ft): n/a

OPEN FLOW DATA

Producing formations	<u>5th Sand</u>	Pay zone depth (ft)	<u>2753'</u>
	<u>Bradford</u>		<u>3899'</u>
	<u>Benson</u>		<u>4745'</u>
	<u>Elk</u>		<u>5132'</u>

Gas: Initial open flow odor Mcf/d. Oil: Initial open flow N/A Bbl/d
Final open flow 220 Mcf/d. Final open flow N/A Bbl/d
Time to open flow between initial and final tests: 4 Hours
Static rock Pressure 1650 psig (surface press.) after 48 Hours

NOTE: On back of this form put the following: 1) Details of perforated intervals, fracturing or stimulating, physical change, etc. 2) The well log which is a systematic detailed geological record of all formations, including coal encountered by the wellbore.

Signed: [Signature]
By: [Signature]
Date: 3/15/11

97.03678

STAGE	FORMATION	PERFORATIONS	SAND
		# of shots	20/40
1st Stage	Elk	12	30,000
2nd Stage	Benson	10	30,000
3rd Stage	Bradford	10	25,000
4th Stage	5th Sand	12	10,000

DRILLERS LOG

[illegible]

ELECTRIC LOG

[illegible]

DATE: 3/15/11
API: 47-097-03709State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: Cornwell Operator Well No. Blake #5, D0917LOCATION: Elevation: 1,703 Quadrangle: Berlin
District: Warren County: Upshur
Latitude: 9720' Feet S. of 39 Deg. 07 Min. 30 Sec.
Longitude: 7550' Feet W. of 80 Deg. 15 Min. 00 Sec.Company: Devonian Gas Production, Inc.

Address:	Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
<u>PO Box 907</u>	<u>9 5/8</u>	<u>30'</u>	<u>30'</u>	
<u>Jane Lew, WV 26378</u>	<u>7"</u>	<u>1022'</u>	<u>1022'</u>	<u>to surface</u>
Agent: <u>John Haskins</u>	<u>4 1/2"</u>		<u>5521'</u>	<u>225 sks</u>
Inspector: <u>Bill Hatfield</u>				
Date Permit Issued: <u>01/15/10</u>				
Date Well Work Commenced: <u>02/02/10</u>				
Date Well Work Completed: <u>02/24/10</u>				
Verbal Plugging:				
Date Permission Granted on:				
Rotary X Cable Rig				
Total Depth (ft): <u>5580'</u>				
Fresh Water Depth (ft): <u>548'</u>				
Salt Water Depth (ft): <u>n/a</u>				

Is coal being mined in the area (Y/N)? N
Coal Depths (ft): n/a

OPEN FLOW DATA

Producing formations	Pay zone depth (ft)
<u>Bradford</u>	<u>4153'</u>
<u>Benson</u>	<u>4997'</u>
<u>Elk</u>	<u>5389'</u>

Gas: Initial open flow 165 Mcf/d. Oil: Initial open flow N/A Bbl/d
Final open flow 275 Mcf/d. Final open flow N/A Bbl/d
Time to open flow between initial and final tests: 4 Hours
Static rock Pressure 1575 psig (surface press.) after 48 Hours

NOTE: On back of this form put the following: 1) Details of perforated intervals, fracturing or stimulating, physical change, etc. 2) The well log which is a systematic detailed geological record of all formations, including coal encountered by the wellbore.

Signed: [Signature]
By: [Signature]
Date: 3/15/11

97.03709

STAGE	FORMATION	PERFORATIONS	SAND
		# of shots	20/40
1st Stage	Elk	12	35,000
2nd Stage	Benson	12	40,000
3rd Stage	Bradford	10	30,000

DRILLERS LOG

[illegible]

ELECTRIC LOG

[illegible]

DATE: 3/15/11
API: 47-097-03722State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: Cutright Operator Well No. Thomas #1 DQ913LOCATION: Elevation: 2141.05' Quadrangle: Alton
District: Meade County: Upshur
Latitude: 8710' Feet S. of 38 Deg. 52 Min. 30 Sec.
Longitude: 7870' Feet W. of 80 Deg. 12 Min. 30 Sec.Company: Devonian Gas Production, Inc.

Address:	Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
<u>PO Box 907</u>	<u>9 5/8</u>	<u>30</u>	<u>30</u>	
<u>Jane Lew, WV 26378</u>	<u>7"</u>	<u>936'</u>	<u>936'</u>	<u>to surface</u>
Agent: <u>John Haskins</u>	<u>4 1/2"</u>	<u>none</u>	<u>4115'</u>	<u>165 sks</u>
Inspector: <u>Bill Hatfield</u>				
Date Permit Issued: <u>03/23/10</u>				
Date Well Work Commenced: <u>03/31/10</u>				
Date Well Work Completed: <u>04/16/10</u>				
Verbal Plugging:				
Date Permission Granted on:				
Rotary X Cable Rig				
Total Depth (ft): <u>4148'</u>				
Fresh Water Depth (ft): <u>87'</u>				
Salt Water Depth (ft): <u>NA</u>				

Is coal being mined in the area (Y/N)? N
Coal Depths (ft): NA

OPEN FLOW DATA

Producing formations	<u>4th</u>	Pay zone depth (ft)	<u>2206'</u>
	<u>5th</u>		<u>2316'</u>
	<u>Elizabeth</u>		<u>2390'</u>
	<u>Benson</u>		<u>3994'</u>

Gas: Initial open flow	<u>odor</u>	Mcf/d.	Oil: Initial open flow	<u>N/A</u>	Bbl/d
Final open flow	<u>200</u>	Mcf/d.	Final open flow	<u>N/A</u>	Bbl/d
Time to open flow between initial and final tests:	<u>8</u>	Hours			
Static rock Pressure	<u>650</u>	psig (surface press.) after	<u>48</u>	Hours	

NOTE: On back of this form put the following: 1) Details of perforated intervals, fracturing or stimulating, physical change, etc. 2) The well log which is a systematic detailed geological record of all formations, including coal encountered by the wellbore.

Signed: [Signature]
By: [Signature]
Date: 3/15/11

97-03722

STAGE	FORMATION	PERFORATIONS	SAND
		# of shots	20/40
1st Stage	Benson	12	45,000
2nd Stage	Elizabeth	12	25,000
3rd Stage	5th sand	10	25,000
4th Stage	4th sand	14	30,000

DRILLERS LOG

[illegible]

ELECTRIC LOG

[illegible]

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: March 19, 2012
API #: 47-103-02612

**REVISED FOR
COMPLETION**

Farm name: Nice, John E., etal Operator Well No.: Talkington-Nice #1H

LOCATION: Elevation: 1,300' Quadrangle: New Martinsville

District: Magnolia County: Wetzel
Latitude: 12,790 Feet South of 39 Deg. 42 Min. 30 Sec.
Longitude 1,100 Feet West of 80 Deg. 50 Min. 00 Sec.

Company: **STONE ENERGY CORPORATION**

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
6000 Hampton Center, Suite B Morgantown, WV 26505	20"	43'	43'	Grouted to Surface
Agent: Tim McGregor	13-3/8"	1,248'	1,248'	1,121 - CTS
Inspector: Derek Haught	9-5/8"	2,508'	2,508'	1,080 - CTS
Date Permit Issued: 01/11/2011	5-1/2"		12,419'	2,988
Date Well Work Commenced: 02/11/2011	2-3/8"		7,021'	
Date Well Work Completed: 10/25/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6,572				
Total Measured Depth (ft): 12,421				
Fresh Water Depth (ft.): 114				
Salt Water Depth (ft.): 1,710				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 1,022				
Void(s) encountered (N/Y) Depth(s) None				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation MARCELLUS Pay zone depth (ft) 7,051' MD to 12,261' MD

Gas: Initial open flow 550 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 2,540 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 39 Hours

Static rock Pressure 1,850 psig (surface pressure) after 1 Hours

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

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Office of Oil & Gas

MAR 20 2012

**WV Department of
Environmental Protection**

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

W. A. [Signature]
Signature

3/19/2012
Date

103.02612

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MWD Gamma, Mud Log, and CBL.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforated 15 individual intervals from 12,261' MD to 7,051' MD. Performed 15 individual stages of slick water stimulations. Total volumes pumped were 677,994 lbs. 80/100 Mesh sand, 5,118,444 lbs. 40/70 Mesh sand, 5,673,668 gals. Fresh Water (99.1869%), 65 gals. Corrosion Inhibitor (0.0011%), 206 lbs. Iron Stabilizer (0.0004%), 1,162 gals. Bio-Cide (0.0205%), 3,647 gals. Friction Reducer (0.0643%), 378 gals. Scale Inhibitor (0.0067%), 3,725 gals. Surfactant (0.0657%), 891 lbs. Breaker (0.0019%), 18,002 lbs. Polymer Gel (0.0381%), 1,086 gals. Clay Stabilizer (0.0191%), 31,768 gals 15% HCl (0.5599%), and 2,010 gals. 28% HCl (0.0354%).

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered:	Top Depth	/	Bottom Depth
Surface:			

See attached sheet for the formations encountered and their depths.

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WV Department of
Environmental Protection

103-02612

Talkington-Nice #1H
 API 47-103-02612
 Stone Energy Corporation
 Horizontal

	Top (ft TVD)	Top (ft MD)		Bottom (ft TVD)	Bottom (ft MD)
Sandstone & Shale	Surface		*	1022	
Pittsburgh Coal	1022		*	1027	
Sandstone & Shale	1027		*	1992	
Little Lime	1992		*	2034	
Sandstone & Shale	2034		*	2097	
Big Lime	2097		*	2291	
Big Injun	2291		*	2334	
Sandstone & Shale	2334		*	2701	
Berea sandstone	2701		*	2714	
Shale	2714		*	2947	
Gordon	2947		*	2995	
Undiff Devonian Shale	2995		*	5899	5902
Rhinestreet	5899	5902	~	6206	6250
Cashaqua	6206	6250	~	6316	6411
Middlesex	6316	6411	~	6329	6435
West River	6329	6435	~	6404	6570
Geneseo	6404	6570	~	6428	6622
Tully limestone	6428	6622	~	6454	6692
Hamilton	6454	6692	~	6474	6756
Marcellus	6474	6756	~	6572	12421
TD	6572	12421			

* From Pilot Hole Log

~ From MWD Gamma Log

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: March 20, 2012
API #: 47-103-02613

**REVISED FOR
COMPLETION**

Farm name: Nice, John E., etal Operator Well No.: Talkington-Nice #2H

LOCATION: Elevation: 1,300' Quadrangle: New Martinsville

District: Magnolia County: Wetzel
Latitude: 12,790 Feet South of 39 Deg. 42 Min. 30 Sec.
Longitude 1,080 Feet West of 80 Deg. 50 Min. 00 Sec.

Company: **STONE ENERGY CORPORATION**

Address: 6000 Hampton Center, Suite B	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Morgantown, WV 26505	20"	45'	45'	Grouted to Surface
Agent: Tim McGregor	13-3/8"	1,177'	1,177'	1,062 - CTS
Inspector: Derek Haught	9-5/8"	2,526'	2,526'	1,080 - CTS
Date Permit Issued: 12/17/2010	5-1/2"		11,678'	2,683
Date Well Work Commenced: 02/20/2011	2-3/8"		7,124'	
Date Well Work Completed: 10/25/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6,569				
Total Measured Depth (ft): 11,678				
Fresh Water Depth (ft.): 46				
Salt Water Depth (ft.): 1,710				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 1,022				
Void(s) encountered (N/Y) Depth(s) None				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation MARCELLUS Pay zone depth (ft) 7,158' MD to 11,589' MD

Gas: Initial open flow 270 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 1,030 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 18 Hours

Static rock Pressure 1,890 psig (surface pressure) after 1 Hours

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

W. J. Haught
Signature

3/19/2012
Date

103.02613

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MWD Gamma, Mud Log, and CBL.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforated 13 individual intervals from 11,589' MD to 7,158' MD. Performed 13 individual stages of slick water stimulations. Total volumes pumped were 573,420 lbs. 80/100 Mesh sand, 4,368,900 lbs. 40/70 Mesh sand, 4,649,128 gals. Fresh Water (99.1008%), 61 gals. Corrosion Inhibitor (0.0013%), 175 lbs. Iron Stabilizer (0.0005%), 1,063 gals. Bio-Cide (0.0229%), 3,711 gals. Friction Reducer (0.0798%), 377 gals. Scale Inhibitor (0.0081%), 3,050 gals. Surfactant (0.0656%), 836 lbs. Breaker (0.0022%), 16,205 lbs. Polymer Gel (0.0418%), 991 gals. Clay Stabilizer (0.0213%), 28,461 gals 15% HCl (0.6122%), and 2,023 gals. 28% HCl (0.0435%).
Plug Back Details Including Plug Type and Depth(s):

Formations Encountered:	Top Depth	/	Bottom Depth
Surface:			

See attached sheet for the formations encountered and their depths.

103-02613

Talkington-Nice #2H
 API 47-103-02613
 Stone Energy Corporation
 Horizontal

	Top (ft TVD)	Top (ft MD)		Bottom (ft TVD)	Bottom (ft MD)
Sandstone & Shale	Surface		*	1022	
Pittsburgh Coal	1022		*	1027	
Sandstone & Shale	1027		*	1992	
Little Lime	1992		*	2034	
Sandstone & Shale	2034		*	2097	
Big Lime	2097		*	2291	
Big Injun	2291		*	2334	
Sandstone & Shale	2334		*	2701	
Berea sandstone	2701		*	2714	
Shale	2714		*	2947	
Gordon	2947		*	2995	
Undiff Devonian Shale	2995		*	5899	5907
Rhinestreet	5899	5907	~	6193	6244
Cashaqua	6193	6244	~	6323	6464
Middlesex	6323	6464	~	6337	6494
West River	6337	6494	~	6411	6670
Geneseo	6411	6670	~	6433	6730
Tully limestone	6433	6730	~	6461	6820
Hamilton	6461	6820	~	6483	6906
Marcellus	6483	6906	~	6569	11679
TD	6569	11679			

* From Pilot Hole Log

~ From MWD Gamma Log

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: March 19, 2012
API #: 47-103-02614

REVISED FOR
COMPLETION

Farm name: Nice, John E., etal Operator Well No.: Talkington-Nice #3H

LOCATION: Elevation: 1,300' Quadrangle: New Martinsville

District: Magnolia County: Wetzel
Latitude: 12,770 Feet South of 39 Deg. 42 Min. 30 Sec.
Longitude 1,060 Feet West of 80 Deg. 50 Min. 00 Sec.

Company: STONE ENERGY CORPORATION

Address: <u>6000 Hampton Center, Suite B</u>	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>Morgantown, WV 26505</u>	<u>20"</u>	<u>49'</u>	<u>49'</u>	<u>Grouted to Surface</u>
Agent: <u>Tim McGregor</u>	<u>13-3/8"</u>	<u>1,155'</u>	<u>1,155</u>	<u>922 - CTS</u>
Inspector: <u>Derek Haught</u>	<u>9-5/8"</u>	<u>2,541'</u>	<u>2,541'</u>	<u>1,215 - CTS</u>
Date Permit Issued: <u>12/17/2010</u>	<u>5-1/2"</u>		<u>10,904'</u>	<u>2,474</u>
Date Well Work Commenced: <u>03/04/2011</u>	<u>2-3/8"</u>		<u>7,007'</u>	
Date Well Work Completed: <u>10/22/2011</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>6,480</u>				
Total Measured Depth (ft): <u>10,916</u>				
Fresh Water Depth (ft.): <u>60</u>				
Salt Water Depth (ft.): <u>1,715</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>1,022</u>				
Void(s) encountered (N/Y) Depth(s) <u>None</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation MARCELLUS Pay zone depth (ft) 6,991' MD to 10,807' MD

Gas: Initial open flow 380 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 3,250 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 225 Hours

Static rock Pressure 1,890 psig (surface pressure) after 40 Hours

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

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WV Department of
Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

W. G. [Signature]
Signature

3/19/2012
Date

103.02614

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MWD Gamma, Mud Log, and CBL.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforated 12 individual intervals from 10,807' MD to 6,991' MD. Performed 12 individual stages of slick water stimulations. Total volumes pumped were 521,280 lbs. 80/100 Mesh sand, 4,013,640 lbs. 40/70 Mesh sand, 4,326,489 gals. Fresh Water (99.0735%), 55 gals. Corrosion Inhibitor (0.0013%), 153 lbs. Iron Stabilizer (0.0004%), 916 gals. Bio-Cide (0.0212%), 3,278 gals. Friction Reducer (0.0758%), 324 gals. Scale Inhibitor (0.0075%), 3,042 gals. Surfactant (0.0703%), 691 lbs. Breaker (0.0019%), 12,246 lbs. Polymer Gel (0.0340%), 863 gals. Clay Stabilizer (0.0199%), 26,018 gals 15% HCl (0.6014%), and 4,016 gals. 28% HCl (0.0928%).

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered:	Top Depth	/	Bottom Depth
Surface:			

See attached sheet for the formations encountered and their depths.

103-02614

Talkington-Nice #3H
API 47-103-02614
Stone Energy Corporation

	Horizontal			Bottom (ft)	
	Top (ft TVD)	Top (ft MD)	(ft MD)	TVD)	MD)
Sandstone & Shale	Surface		*	1022	
Pittsburgh Coal	1022		*	1027	
Sandstone & Shale	1027		*	1992	
Little Lime	1992		*	2034	
Sandstone & Shale	2034		*	2097	
Big Lime	2097		*	2291	
Big Injun	2291		*	2334	
Sandstone & Shale	2334		*	2701	
Berea sandstone	2701		*	2714	
Shale	2714		*	2947	
Gordon	2947		*	2995	
Undiff Devonian Shale	2995		*	5892	5910
Rhinestreet	5892	5910	~	6185	6250
Cashaqua	6185	6250	~	6312	6438
Middlesex	6312	6438	~	6326	6462
West River	6326	6462	~	6397	6606
Geneseo	6397	6606	~	6419	6662
Tully limestone	6419	6662	~	6444	6734
Hamilton	6444	6734	~	6464	6802
Marcellus	6464	6802	~	6480	10916
TD	6480	10916			

* From Pilot Hole Log

~ From MWD Gamma Log

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WV Department of
Environmental Protection

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: March 19, 2012
API #: 47-103-02651

REVISED FOR
COMPLETION

Farm name: Nice, John E., etal Operator Well No.: Talkington-Nice #4H

LOCATION: Elevation: 1,300' Quadrangle: New Martinsville

District: Magnolia County: Wetzel
Latitude: 12,800 Feet South of 39 Deg. 42 Min. 30 Sec.
Longitude 1,120 Feet West of 80 Deg. 50 Min. 00 Sec.

Company: **STONE ENERGY CORPORATION**

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
6000 Hampton Center, Suite B Morgantown, WV 26505	20"	45'	45'	Grouted to Surface
Agent: Tim McGregor	13-3/8"	1,167'	1,167'	1,107 - CTS
Inspector: Derek Haught	9-5/8"	2,536'	2,536'	1,080 - CTS
Date Permit Issued: 04/19/2011	5-1/2"		10,584'	2,378
Date Well Work Commenced: 05/15/2011	2-3/8"		6,876'	
Date Well Work Completed: 10/22/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6,482				
Total Measured Depth (ft): 10,590				
Fresh Water Depth (ft.): 60				
Salt Water Depth (ft.): 1,705				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 1,022				
Void(s) encountered (N/Y) Depth(s) None				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation MARCELLUS Pay zone depth (ft) 6,915' MD to 10,516' MD

Gas: Initial open flow 560 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 3,040 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 111 Hours

Static rock Pressure 2,480 psig (surface pressure) after 114 Hours

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

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Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

W. J. Haught
Signature

3/19/2012
Date

103.02651

Talkington-Nice #4H
 API 47-103-02651
 Stone Energy Corporation
 Horizontal

	Top (ft TVD)	Top (ft MD)		Bottom (ft TVD)	Bottom (ft MD)
Sandstone & Shale	Surface		*	1022	
Pittsburgh Coal	1022		*	1027	
Sandstone & Shale	1027		*	1992	
Little Lime	1992		*	2034	
Sandstone & Shale	2034		*	2097	
Big Lime	2097		*	2291	
Big Injun	2291		*	2334	
Sandstone & Shale	2334		*	2701	
Berea sandstone	2701		*	2714	
Shale	2714		*	2947	
Gordon	2947		*	2995	
Undiff Devonian Shale	2995		*	5881	5916
Rhinestreet	5881	5916	~	6207	6309
Cashaqua	6207	6309	~	6308	6460
Middlesex	6308	6460	~	6328	6494
West River	6328	6494	~	6400	6628
Geneseo	6400	6628	~	6422	6674
Tully limestone	6422	6674	~	6446	6730
Hamilton	6446	6730	~	6465	6780
Marcellus	6465	6780	~	6482	10590
TD	6482	10590			

* From Pilot Hole Log

~ From MWD Gamma Log

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